

CLAIM AMENDMENTS

The following listing of claims replaces all prior versions and listings of claims in this application.

1. (Original) A method comprising:
sampling pixels in a first region within a tool impression in a digital image to determine a first distribution of a pixel property of the pixels in the first region;
sampling pixels in a second region within the tool impression to determine a second distribution of the pixel property of the pixels in the second region; and
editing at least one pixel within the tool impression based on the first and second distributions.
2. (Original) The method of claim 1 wherein the editing operation comprises:
altering an editable pixel property of the at least one pixel.
3. (Original) The method of claim 1 wherein the editing operation comprises:
altering an editable pixel property of the at least one pixel, the editable pixel property being different than the sampled pixel property.
4. (Original) The method of claim 1 wherein the first and second regions represent differently-located subdivisions of the tool impression.
5. (Original) The method of claim 1 wherein the editing operation comprises:
editing the at least one pixel within the tool impression according to an edit profile based on the first and second distributions of the pixel property.
6. (Original) The method of claim 5 wherein the edit profile is determined by
classifying the pixel properties as a function of pixel property differences.
7. (Original) The method of claim 5 wherein the edit profile is determined by
classifying the pixel properties into at least two edit classes, each edit class applying a different degree of an editing effect.
8. (Original) The method of claim 5 wherein the edit profile is determined by

classifying the pixel properties into at least two edit classes) each edit class applying a different editing effect.

9. (Original) The method of claim 5 wherein the edit profile is determined by classifying the pixel properties using blind signal separation.

10. (Original) The method of claim 5 wherein the edit profile is determined by categorizing the pixel properties using a classifier.

11. (Original) The method of claim 5 wherein the edit profile is determined by classifying the pixel properties using discriminant analysis.

12. (Original) The method of claim 5 wherein the edit profile is determined by classifying the pixel properties using mixture modeling.

13. (Original) The method of claim 5 wherein the edit profile is determined by classifying the pixel properties using Bayesian statistics.

14. (Original) The method of claim 5 wherein the edit profile is determined by classifying the pixel properties using thresholds.

15. (Original) The method of claim 5 wherein the edit profile is determined by classifying the pixel properties using property variance.

16. (Original) The method of claim 5 wherein the edit profile includes overlapping edit classes, each edit class representing a different degree of editing effect.

17. (Original) The method of claim 5 wherein the edit profile includes overlapping edit classes, each edit class representing a different type of editing effect.

18. (Original) The method of claim 5 wherein the edit profile designates an edit class specifying a replacement value of an editable pixel property of the at least one pixel.

19. (Original) The method of claim 5 wherein the edit profile designates an edit class specifying a transformation of an editable pixel property of the at least one pixel.

20. (Original) The method of claim 1 wherein the editing operation comprises:
editing at least one pixel within each of the first region and the second region of the tool impression based on the first and second distributions of the pixel property.

21. (Original) The method of claim 1 wherein the pixel property is a composite pixel property.

22. (Original) The method of claim 1 wherein the pixel property is a multidimensional pixel property.

23. (Original) The method of claim 1 wherein the operation of sampling pixels in the first region comprises:

determining a property value for each of a plurality of pixels within the first region.

24. (Original) The method of claim 1 further comprising:
determining location and dimensions of the tool impression within the digital image.

25. (Original) The method of claim 1 further comprising:
identifying the pixels in the first region within the tool impression of the digital image;
and
identifying the pixels in the second region within the tool impression of the digital image.

26. (Currently Amended) A computer ~~program-product-readable medium~~ encoding a computer program for executing on a computer system a computer process, the computer process comprising:

sampling pixels in a first region within a tool impression in a digital image to determine a first distribution of a pixel property of the pixels in the first region;

sampling pixels in a second region within the tool impression to determine a second distribution of the pixel property of the pixels in the second region; and

editing at least one pixel within the tool impression based on the first and second distributions.

27. (Currently Amended) The computer ~~program-product-readable medium~~ of claim 26 wherein the editing operation comprises:

altering an editable pixel property of the at least one pixel.

28. (Currently Amended) The computer ~~program-product-readable medium~~ of claim 26 wherein the editing operation comprises:

altering an editable pixel property of the at least one pixel, the editable pixel property being different than the sampled pixel property.

29. (Currently Amended) The computer ~~program-product-readable medium~~ of claim 26 wherein the first and second regions represent differently-located subdivisions of the tool impression.

30. (Currently Amended) The computer ~~program-product-readable medium~~ of claim 26 wherein the editing operation comprises:

editing the at least one pixel within the tool impression according to an edit profile based on the first and second distributions of the pixel property.

31. (Currently Amended) The computer ~~program-product-readable medium~~ of claim 30 wherein the edit profile is determined by classifying the pixel properties as a function of pixel property differences.

32. (Currently Amended) The computer ~~program-product-readable medium~~ of claim 30 wherein the edit profile is determined by classifying the pixel properties into at least two edit classes, each edit class applying a different degree of an editing effect.

33. (Currently Amended) The computer ~~program-product-readable medium~~ of claim 30 wherein the edit profile is determined by classifying the pixel properties into at least two edit classes, each edit class applying a different editing effect.

34. (Currently Amended) The computer ~~program-product-readable medium~~ of claim 30 wherein the edit profile is determined by classifying the pixel properties using blind signal separation.

35. (Currently Amended) The computer ~~program-product-readable medium~~ of claim 30 wherein the edit profile is determined by categorizing the pixel properties using a classifier.

36. (Currently Amended) The computer ~~program-product~~readable medium of claim 30 wherein the edit profile is determined by classifying the pixel properties using discriminant analysis.

37. (Currently Amended) The computer ~~program-product~~readable medium of claim 30 wherein the edit profile is determined by classifying the pixel properties using mixture modeling.

38. (Currently Amended) The computer ~~program-product~~readable medium of claim 30 wherein the edit profile is determined by classifying the pixel properties using Bayesian statistics.

39. (Currently Amended) The computer ~~program-product~~readable medium of claim 30 wherein the edit profile is determined by classifying the pixel properties using thresholds.

40. (Currently Amended) The computer ~~program-product~~readable medium of claim 30 wherein the edit profile is determined by classifying the pixel properties using property variance.

41. (Currently Amended) The computer ~~program-product~~readable medium of claim 30 wherein the edit profile includes overlapping edit classes, each edit class representing a different degree of editing effect.

42. (Currently Amended) The computer ~~program-product~~readable medium of claim 30 wherein the edit profile includes overlapping edit classes, each edit class representing a different type of editing effect.

43. (Currently Amended) The computer ~~program-product~~readable medium of claim 30 wherein the edit profile designates an edit class specifying a replacement value of an editable pixel property of the at least one pixel.

44. (Currently Amended) The computer ~~program-product~~readable medium of claim 30 wherein the edit profile designates an edit class specifying a transformation of an editable pixel property of the at least one pixel.

45. (Currently Amended) The computer ~~program-product~~readable medium of claim 26 wherein the editing operation comprises:

editing at least one pixel within each of the first region and the second region of the tool impression based on the first and second distributions of the pixel property.

46. (Currently Amended) The computer ~~program-product~~readable medium of claim 26 wherein the pixel property is a composite pixel property.

47. (Currently Amended) The computer ~~program-product~~readable medium of claim 26 wherein the pixel property is a multidimensional pixel property.

48. (Currently Amended) The computer ~~program-product~~readable medium of claim 26 wherein the operation of sampling pixels in the first region comprises:

determining a property value for each of a plurality of pixels within the first region.

49. (Currently Amended) The computer ~~program-product~~readable medium of claim 26 wherein the computer process further comprises:

determining location and dimensions of the tool impression within the digital image.

50. (Currently Amended) The computer ~~program-product~~readable medium of claim 26 wherein the computer process further comprises:

identifying the pixels in the first region within the tool impression of the digital image;
and

identifying the pixels in the second region within the tool impression of the digital image.

51. (Original) A system comprising:

a region sampling module that samples pixels in a first region within a tool impression in a digital image to determine a first distribution of a pixel property of the pixels in the first region and samples pixels in a second region within the tool impression to determine a second distribution of the pixel property of the pixels in the second region; and

an editing module that edits at least one pixel within the tool impression based on the first and second distributions.